

## CLAIMS

What is claimed is:

- 1 1. A monitoring system employed within a network comprising:  
2 a file including semantics and directives to generate a monitor tree, wherein the file is  
3 retrieved from a database by a monitor service;  
4 the monitor tree generated based, at least in part, on the semantics and the directives  
5 of the file to monitor a plurality of resources, wherein the monitor tree includes a plurality of  
6 nodes, each of the plurality of nodes having a monitor managed bean and a resource of the  
7 plurality of resources associated with the monitor managed bean; and  
8 a visual administrator module to provide an interface to the monitoring system.
- 1 2. The system of claim 1, wherein the monitoring system is a Java management  
2 extensions (JMX) – based monitoring system.
- 1 3. The system of claim 2, wherein the visual administrator module comprises:  
2 a convenience interface to obtain information from the monitor service; and  
3 a graphical user interface to provide a graphical representation of the monitor tree  
4 based, at least in part, on the information obtained by the convenience interface.
- 1 4. The system of claim 3, wherein the graphical user interface is to provide a window  
2 pane to display, at least a portion of, the graphical representation of the monitor tree.
- 1 5. The system of claim 4, wherein the graphical user interface is to further provide a  
2 second window pane to display a list of one or more properties for at least one of the plurality  
3 of nodes of the monitor tree.

1 6. The system of claim 5, wherein the list of one or more properties includes one or  
2 more key-value pairs, each key-value pair having a key to identify a listed property and a  
3 corresponding value to specify a current value of the identified property.

1 7. The system of claim 4, wherein the graphical user interface is to select one of the  
2 plurality of nodes of the graphical representation of the monitor tree, the selected node  
3 having a monitor managed bean.

1 8. The system of claim 7, wherein the graphical user interface is to further provide a  
2 second window pane having an attribute tab and an operation tab.

1 9. The system of claim 8, wherein the second window pane is to display a list of one or  
2 more attributes of the monitor managed bean, if the attribute tab is selected.

1 10. The system of claim 9, wherein at least one of the listed attributes includes a value  
2 field specifying a current value of the listed attribute.

1 11. The system of claim 8, wherein the second window pane is to display a list of one or  
2 more operations of the monitor managed bean, if the operation tab is selected.

1 12. The system of claim 11, wherein the second pane is to display an invoke button to  
2 selectively invoke one or more of the listed operations of the monitor managed bean.

1 13. A computer-implemented method employed within a network comprising:  
2 accessing a file in a database, the file having semantics and directives to generate a  
3 monitor tree to individually monitor a plurality of resources within the network;

4           generating the monitor tree based, at least in part, on the semantics and the directives  
5 of the file, the monitor tree to monitor a plurality of resources; and  
6           displaying, at least a portion of, the generated monitor tree on a graphical user  
7 interface of a visual administrator, wherein the displayed portion of the generated monitor  
8 tree includes a plurality of nodes, each of the plurality of nodes having a monitor managed  
9 bean and a resource of the plurality of resources associated with the monitor managed bean.

1   14.    The method of claim 13, wherein displaying, at least a portion of the generated  
2 monitor tree on the graphical user interface of the visual administrator comprises:  
3           displaying the portion of the generated monitor tree in a first window pane of the  
4 graphical user interface.

1   15.    The method of claim 14, further comprising:  
2           selecting one of the plurality of nodes, the selected node having a monitor managed  
3 bean and a resource of the plurality of resources associated with the monitor managed bean.

1   16.    The method of claim 15, further comprising:  
2           displaying a list of one or more properties of the selected node in a second window  
3 pane of the graphical user interface.

1   17.    The method of claim 16, wherein displaying the list of one or more properties  
2 comprises:  
3           displaying one or more key-value pairs in the second window pane of the graphical  
4 user interface, each key-value pair having a key to identify a listed property and a  
5 corresponding value to specify a current value of the identified property.

1   18.    The method of claim 15, further comprising:

2 displaying a second window pane having an attribute tab and an operation tab.

1 19. The method of claim 18, further comprising:

2 displaying a list of one or more attributes of the monitor managed bean, if the  
3 attribute tab is selected.

1 20. The method of claim 19, wherein at least one of the listed attributes includes a value  
2 field specifying a current value of the listed attribute.

1 21. The method of claim 20, further comprising:

2 entering a value in the value field to specify a new value for the listed attribute.

1 22. The method of claim 18, further comprising:

2 displaying a list of one or more operations of the monitor managed bean, if the  
3 operation tab is selected.

1 23. The method of claim 22, wherein displaying the list of one or more operations of the  
2 monitor managed bean further comprises:

3 displaying an invoke button to selectively invoke one or more of the listed operations  
4 of the monitor managed bean.

1 24. A system comprising:

2 a means for accessing a file in a database, the file having semantics and directives to  
3 generate a monitor tree to individually monitor a plurality of resources within the network;

4 a means for generating the monitor tree based, at least in part, on the semantics and  
5 the directives of the file, the monitor tree to monitor a plurality of resources; and

6 a means for displaying, at least a portion of the generated monitor tree on a graphical  
7 user interface of a visual administrator, wherein the displayed portion of the generated  
8 monitor tree includes a plurality of nodes, each of the plurality of nodes having a monitor  
9 managed bean and a resource of the plurality of resources associated with the monitor  
10 managed bean.

1 25. The system of claim 24, wherein the means for displaying, at least a portion of the  
2 generated monitor tree on the graphical user interface of the visual administrator comprises:  
3 a means for displaying the portion of the generated monitor tree in a first window  
4 pane of the graphical user interface.

1 26. The system of claim 25, further comprising:  
2 a means for selecting one of the plurality of nodes, the selected node having a monitor  
3 managed bean and a resource of the plurality of resources associated with the monitor  
4 managed bean.

1 27. The system of claim 26, further comprising:  
2 a means for displaying a list of one or more properties of the selected node in a  
3 second window pane of the graphical user interface.

1 28. The system of claim 27, wherein the means for displaying the list of one or more  
2 properties of the selected node in the second window pane of the graphical user interface  
3 comprises:  
4 a means for displaying one or more key-value pairs in the second window pane of the  
5 graphical user interface, each key-value pair having a key to identify a listed property and a  
6 corresponding value to specify a current value of the identified property.

1 29. An article of manufacture comprising:

2 an electronically accessible medium providing instructions that, when executed by an  
3 apparatus, cause the apparatus to

4 access a file in a database, the file having semantics and directives to generate a  
5 monitor tree to individually monitor a plurality of resources within the network;

6 generate the monitor tree based, at least in part, on the semantics and the directives of  
7 the file, the monitor tree to monitor a plurality of resources; and

8 display, at least a portion of the generated monitor tree on a graphical user interface  
9 of a visual administrator, wherein the displayed portion of the generated monitor tree

10 includes a plurality of nodes, each of the plurality of nodes having a monitor managed bean

11 and a resource of the plurality of resources associated with the monitor managed bean.

1 30. The article of manufacture of claim 29, wherein the instructions that, when executed  
2 by the apparatus, cause the apparatus to display the portion of the generated monitor tree in a  
3 first window pane of the graphical user interface cause the apparatus to

4 display the portion of the generated monitor tree in a first window pane of the  
5 graphical user interface.

1 31. The article of manufacture of claim 30, wherein the electronically accessible medium  
2 provides further instructions that, when executed by the apparatus, cause the apparatus to  
3 select one of the plurality of nodes, the selected node having a monitor managed bean  
4 and a resource of the plurality of resources associated with the monitor managed bean.

1 32. The article of manufacture of claim 30, wherein the electronically accessible medium  
2 provides further instructions that, when executed by the apparatus, cause the apparatus to  
3 display a second window pane having an attribute tab and an operation tab; and

- 4 display a list of one or more attributes of the monitor managed bean, if the attribute
- 5 tab is selected.